

Development of the second tracking system in SLR Borowiec

The Space Research Centre of Polish Academy of Science (SRC PAS) Borowiec Satellite Laser Ranging station (BORL 7811) went through modernization in 2014-2015. Since 2015 Borowiec Satellite Laser Ranging (SLR) station regularly tracks space debris (SD) objects from LEO regime, including rocket bodies and cooperative targets like TOPEX/Poseidon, ENVISAT, OICETS, using Surelite III laser source made by Continuum. The station has two twin 65cm Cassegrain telescopes: one operational Cassegrain-A for ILRS needs and SD tracking and unused Cassegrain-B. The next step of modernization was to develop the second independent tracking system for LEO to GEO regime with different techniques for measurement / detecting the objects using Cassegrain-B.